FORM PTO-1449
(Rev. 2-32)

U.S. Department of Commerce Patent and Trademark Office

Atty. Docket No.

Serial No.

00-713-B1

09/923,625

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use several sheets if necessary)

Applicant:

Chad A. Mirkin, et al.

Filing Date:

Group:

August 7, 2001

1637

U.S. PATENT DOCUMENTS

		T	U.S. PAIENT	DOCUMENTS		· · · · · · · · · · · · · · · · · · ·	
Examiner Initial		Document Number	Date	Name	Class	Subclass	Filing Dat if Appropriate
a	1.	5,830,986	11/03/98	Merrill, et al.	528	332	10/28/96
	2.	5,900,481	05/04/99	Lough, et al.	536	- 55.3	11/06/96
	3.	6,203,989	03/20/01	Goldberg, et al	435	6	03/25/99
	4.	6,251,303	06/26/01	Bawendi, et al.	252	301.4R	09/18/98
	5.	6,277,489	08/21/01	Abbott, et al.	428	403	12/04/98
	6.	6,306,610	10/23/01	Bawendi, et al.	435	7.1	09/17/99
	7.	6,361,944	03/26/02	Mirkin, et al.	435	6	06/25/99
	8.	6,365,418	04/02/02	Wagner, et al.	. 436	518	05/18/00
U	9.	6,417,340	07/09/02	Mirkin, et al.	536	23.1	10/20/00

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Subclass	Trans Yes	slation No
20	10.	WO 93/25709	23 December 1993	PCT)	(
	11.	WO 98/04740	5 February 1998	· PCT	- \ ,	a.		
	12.	WO 98/17317	30 April 1998	PCT				
U	13.	WO 99/60169	25 November 1999	PCT				
	14.	-WO 00/33079	8 June 2002	PCT				<u>ئـــ</u>
	-15	WO 01/00876	4 January 2001	PCT				

EXAMINER

nu h

DATE CONSIDERED

2/3/03

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

MCDONNELL BOEHNEN HULBERT & BERGHOFF 300 SOUTH WACKER DRIVE CHICAGO, ILLINOIS 60608 TELEPHONE (312) 913-0001

FORM PTO-1449	U.S. D partment of Commerce Patent and Trademark Office	Atty. Docket No.	Serial No.			
(Rev. 2-32)	Patent and Trademark Office	00-713-B1	09/923,625			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT						
(Use several sheets it						
,	,	Applicant:				
		Chad A. Mirkin, et al.				
		Filing Date:	Group:			
		August 7, 2001	1637			

U.S. PATENT DOCUMENTS Filing Date if Examiner **Document Number** Name Class_ Subclass **Appropriate** Initial Date

FOREIGN PATENT DOCUMENTS

	Document Number	Date	Country	Class	Subclass	Trans Yes	lation No
16.	WO 01/51665	19 July 2001	PCT				
17.	WO 01/73123	4 October 2001	PCT				
18.	WO 01/86301	15 November 2001	PCT				
19.	WO 02/04681	17 January 2002	PCT				
20.	WO 02/18643	7-March 2002	PCT				
21.	WO 02/36169	10 May 2002	PCT				
22.	WO 02/46483	13 June 2002	PCT				
23.	WO 02/46472	13 June 2002	PCT				

		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc).
	24.	Letsinger, R., et al., "Chemistry of Oligonucleotide-Gold Nanoparticle Conjugates," Phosphorus, Sulfur and Silicon, Volume 144, p. 359-362 (1999)
m	25.	Letsinger, R., et al., "Use of a Steroid Cyclic Disulfide Anchor in Constructing Gold Nanoparticle—Oligonucleotide Conjugates," <i>Bioconjugate Chem</i> , p. 289-291 (2000)

U	.S.	PA	rent	DOC	UME	NTS

EXAMINER

DATE CONSIDERED 2/3/03

EXAMINER: Initial if ottation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

McDONNELL BOEHNEN HULBERT & BERGHOFF 300 SOUTH WACKER DRIVE CHICAGO, ILLINOIS 60606 TELEPHONE (312) 913-0001

Sh	eet	3	of

FORM PTO-1449 (Rev. 2-32) INFORMATION DISC		U.S. Department of Patent and Trad		Atty. Docket No. 00-713-81		•	Serial No. 09/923,625		5		
		STATEMENT BY AF									
		(Use several sheets if	necessary)		Annlinante						
					Applicant:						
					Filing [. Mirkin, et Date:	aı.	Grou	in.		
						7, 2001		163	•		
					, lugust	7,7 2001		100			
Examiner Initial		Document Number	Date	Name	ne Class Su			lass	Filing Date if Appropriate		
. ,			-								
		.,									
		المحتوجة	FOREIGN PATENT D	OCUMENTS							
			- FOREIGN FATERITO	OCCIVILITY					Trans	lation	
<u> </u>		Document Number	Date	Country	Class S		Subc	lass	Yes	No	
		OTHER DOCUMEN	TS (Including Author, T	itle. Date. Pertin	ent Page	s. Etc).					
21	26.		OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc). Li Z., et al., "Multiple thiol-anchor capped DNA-gold nanoparticle conjugates," <i>Nucleic Acids Research</i> , Volume 30, p. 1558-1562 (2002)								
	27.		Nuzzo R., et al., "Spontaneously Organized Molecular Assemblies. 3. Preparation and Properties of Solution Adsorbed Monolayers of Organic Disulfides on Gold Surfaces, " J. Am Chem. Soc., Volume 109, p. 2358-2368 (1987)								
	28.	Otsuka, H., et al., "Quantitative mercapto-poly(ethyleneglycol),"	e and Reversible Lectin-In J. Am Chem. Soc., Volu	duced Association me 123, p. 8226-	of Gold N 8230 (20	lanoparticle 01)	s Modif	ied wit	h œ-Laci	tosyl-ω-	
M	29.	Wuelfing, P., et al., "Nanomoglycol) Polymer Electrolyte,"	eter Gold Clusters Prot J. Am Chem. Soc., Vo	ected by Surface plume 120, p. 12	Bound N 2696-126	Monolayers 597 (1998	s of Thi 3)	olated	l Poly(et	thylene	

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication.

DATE CONSIDERED 2/3/03

McDONNELL BOEHNEN HULBERT & BERGHOFF 300 SOUTH WACKER DRIVE CHICAGO, ILLINOIS 60606 TELEPHONE (312) 913-0001

EXAMINER